The HTT5 tension tie provides a tension connection between wood-framed wall and the foundation. It installs on the wood member with nails and is connected to the foundation with either a cast-in-place anchor bolt, adhesive anchor or mechanical anchor. The allowable loads shown above are the maximum published for this connector. Allowable loads for HTT tension ties may be limited by the size and species of the wood post. For additional load information see the current Simpson Strong-Tie Wood Construction Connectors catalog.

**Anchorage Options**

(See pages 6–11 for detailed anchor information.)

**Adhesive Anchors**

- SET high-strength epoxy anchoring adhesive for use with threaded rod
- AT high-strength, all-weather acrylic anchoring adhesive for use with threaded rod

**Mechanical Anchors**

- Refer to the Titen HD® heavy duty screw anchor on page 10 for post-installed mechanical anchor designs below the maximum capacity of the connector

**Cast-in-Place Anchors**

- SB anchor bolt for high performance in near-edge conditions
- SSTB anchor bolt for high performance in near-edge conditions

**How to use these pages:**

Steps to select a concrete anchor solution for this connector:

1. Identify the table for your foundation type (slab, stemwall or brick ledge).
2. Using the figures below the table, determine the edge distance condition for the anchor.
3. Based on the species of the wood post, DF/SP = Douglas Fir-Larch or Southern Pine, SPF/HF = Spruce-Pine-Fir or Hem Fir, select the anchor solution from the table.

If no solution is provided, it may not be possible to design anchorage for the maximum capacity of the connector. See pages 6-11 for the allowable loads of concrete anchoring products when evaluating loading conditions below the maximum allowable load for this connector.
**HT5 TENSION TIE**

**STEMWALL INSTALLATION**

<table>
<thead>
<tr>
<th>Simpson Strong-Tie Anchor Type</th>
<th>Anchor Model</th>
<th>Embedment Depth, le (in.)</th>
<th>DF/SP Species</th>
<th>SPF/HF Species</th>
<th>Condition</th>
<th>Midwall</th>
<th>Corner</th>
<th>End-Of-Wall</th>
<th>Condition</th>
<th>Midwall</th>
<th>Corner</th>
<th>End-Of-Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesive Anchor</td>
<td>SET</td>
<td>18</td>
<td>18</td>
<td>—</td>
<td>12</td>
<td>18</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Mechanical Anchor</td>
<td>AT</td>
<td>18</td>
<td>18</td>
<td>—</td>
<td>18</td>
<td>18</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Cast-In-Place Anchor</td>
<td>SB5/8x24</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>—</td>
<td>20%</td>
<td>20%</td>
<td>20%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SSTB24</td>
<td>18</td>
<td>—</td>
<td>20%</td>
<td>20%</td>
<td>20%</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

1. See page 8 for additional details for this foundation type.

**BRICK LEDGE INSTALLATION**

<table>
<thead>
<tr>
<th>Simpson Strong-Tie Anchor Type</th>
<th>Anchor Model</th>
<th>Embedment Depth, le (in.)</th>
<th>DF/SP Species</th>
<th>SPF/HF Species</th>
<th>Condition</th>
<th>Midwall</th>
<th>Corner</th>
<th>End-Of-Wall</th>
<th>Condition</th>
<th>Midwall</th>
<th>Corner</th>
<th>End-Of-Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesive Anchor</td>
<td>SET</td>
<td>5</td>
<td>12</td>
<td>12</td>
<td>5</td>
<td>5</td>
<td>12</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Mechanical Anchor</td>
<td>AT</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>5</td>
<td>5</td>
<td>12</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Cast-In-Place Anchor</td>
<td>SB5/8x24</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>18</td>
<td>20%</td>
<td>20%</td>
<td>20%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SSTB24</td>
<td>18</td>
<td>—</td>
<td>20%</td>
<td>20%</td>
<td>20%</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

1. See page 9 for additional details for this foundation type.

---

**STEMWALL INSTALLATION ADHESIVE ANCHOR DETAILS**

(See page 10 for mechanical anchors and page 11 for cast-in-place anchors.)

**BRICK LEDGE INSTALLATION ADHESIVE ANCHOR DETAILS**

(See page 10 for mechanical anchors and page 11 for cast-in-place anchors.)

---

1. See page 8 for additional details for this foundation type.